ENVIRONMENTAL CHEMISTS

Date of Report: 02/10/00 Date Received: 01/27/00

Project: Metro Self Monitor, PO# M63444

Date Extracted: 01/31/00 Date Analyzed: 02/08/00

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID Chromium	Copper Nickle Zinc	
Laboratory ID	결혼 경우 이 경환 물론에 얼마 기술이	
M63444 0.13	0.14 0.16 0.07	
001115-01		
	경문으로 가게 맛말하지 않아 그들을 하네요요	
Method Blank <0.05 <	0.05 <0.05 <0.05	

ENVIRONMENTAL CHEMISTS

Date of Report: 02/10/00 Date Received: 01/27/00

Project: Metro Self Monitor, PO# M63444

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 001115-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicat Result	e Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.13	0.15	14	0-20
Copper	mg/L (ppm)	0.14	0.16	13	0-20
Nickel	mg/L (ppm)	0.16	0.20	22 a	0-20
Zinc	mg/L (ppm)	0.07	0.07	0	0-20

Laboratory Code: 001115-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recove	ery % Recove	ry Acceptance	
Analyte	Units	Level	Result	MS	MSD	Criteria	RPD
Chromiun	mg/L (ppm)	5	0.13	110	107	80-120	3
Copper	mg/L (ppm)	5	0.14	95	89	80-120	7
Nickel	mg/L (ppm)	10	0.16	111	112	80-120	1
Zinc	mg/L (ppm)	5	0.07	121 vo	124 vo	80-120	3

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recovery	% Recover	y Acceptance	,		
Analyte	Units	Level	LCS	LCSD	Criteria		RPD	
Chromium	mg/L (ppm)	5	106	105	80-120		1	
Copper	mg/L (ppm)	5	100	100	80-120		0	
Nickel	mg/L (ppm)	10	108	108	80-120		0	
Zinc	mg/L (ppm)	5	110	111	80-120		1	

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

vo - The value reported fell outside the control limits established for this analyte.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 10, 2000

DUPLICATE COPY

INVOICE #00ACU0210-1

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

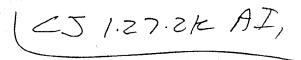
RE: Project Metro Self Monitor, PO# M63444- Results of testing requested by Gerry Thompson for material submitted on January 27, 2000.

1 sample analyzed for Total Chromium,
Copper, Nickel, and Zinc
by Method 6010 @ \$80 per sample

\$ 80.00

FEDERAL TAX ID 7(b) (6)

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282



SAMPLE CHAIN OF CUSTODY

Send Report To: Company A\ASKAN Copper Works Contact Gerall A. Thompson Address 678 Harbord ST							
City, State, Zip		734					
Phone # 286- 382-	8779		Z0G- 3	82-4709	D	ate	9
SITE NO.		PROJE	CT NAME	,	P	URCHASE ORDE	ER #
7238		metro Sa	elf n	zonitac	m	63444	
SAMPLERS (signature)					P	ROJECT LOCAT	ON
Shall Sha		-			3200		25,
REMARKS						DISPOSAL INFO	
					Re	spose after 30 da eturn Samples all for Instruction	
Sample #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample		Analyse Requeste	S
m 67448.	1/27/00 12:70	H20	/	01	CK		2
(2) 77	170,000						
						`	

	<u> </u>		·				
·····							
						•	
						*	

SIGNATURE	F	PRINT NAME		COMPAN	1 <u>Y</u>	Pate	Time
Religioushed by:	- Exac	DA, Thomas	۵	ACL)	1/27/00	12:45
Received by:	- S/	horn	7	FAB :	Inc.	1/27/2/2	1:30
Relinquished by:							
Received by:							

FORMS/COC

12/29/99

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 10, 2000

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on January 27, 2000 from your Metro Self Monitor, PO# M63444 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Dianne C. Suit

Dianne C. Hurt Project Manager

Enclosures ACU0210R.DOC